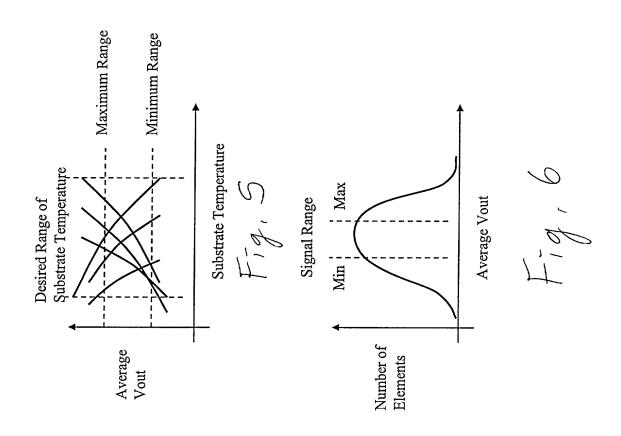
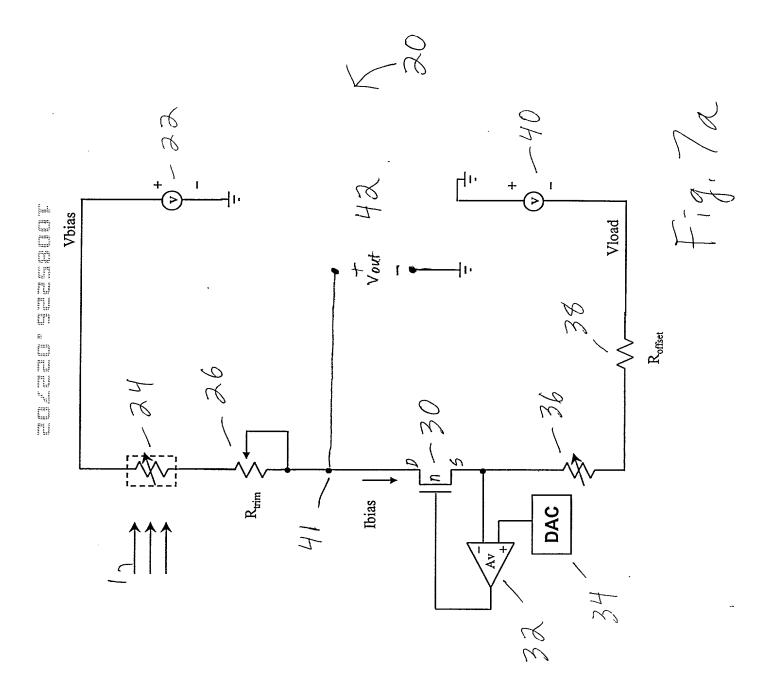


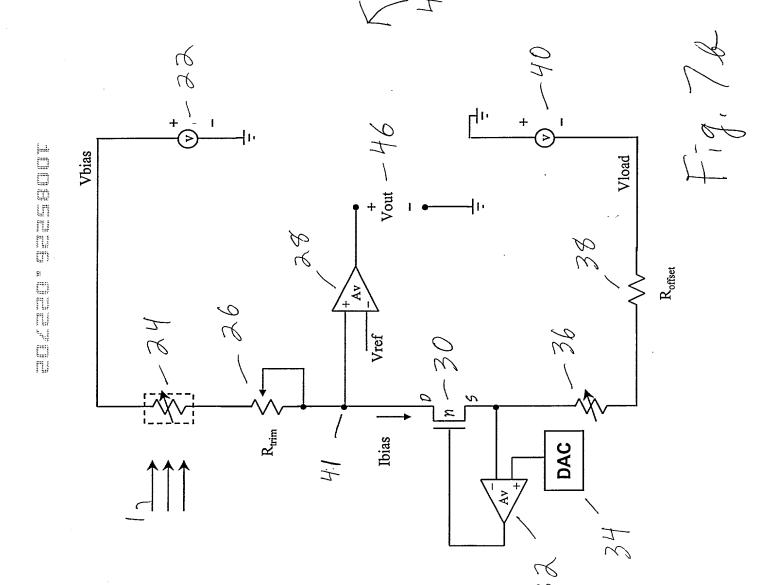
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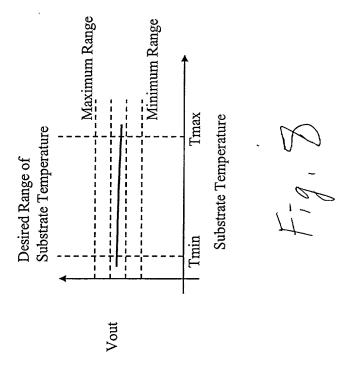


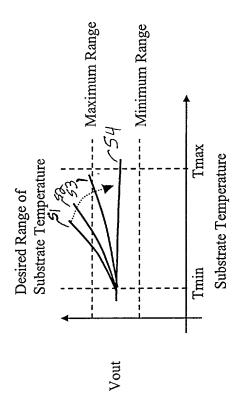
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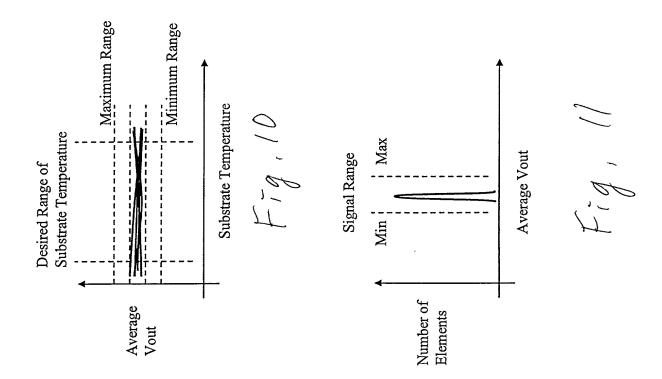
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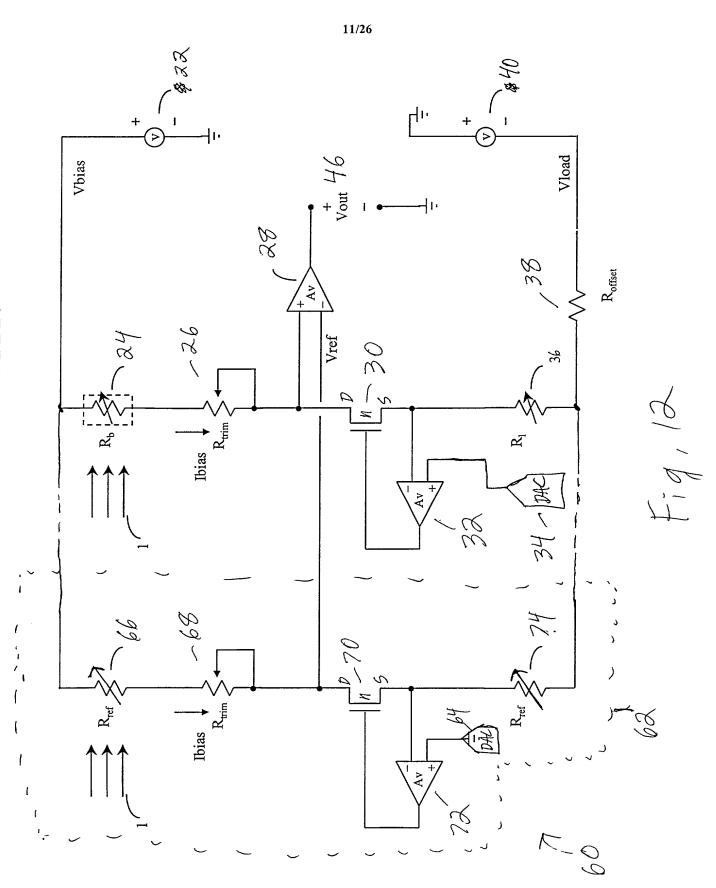


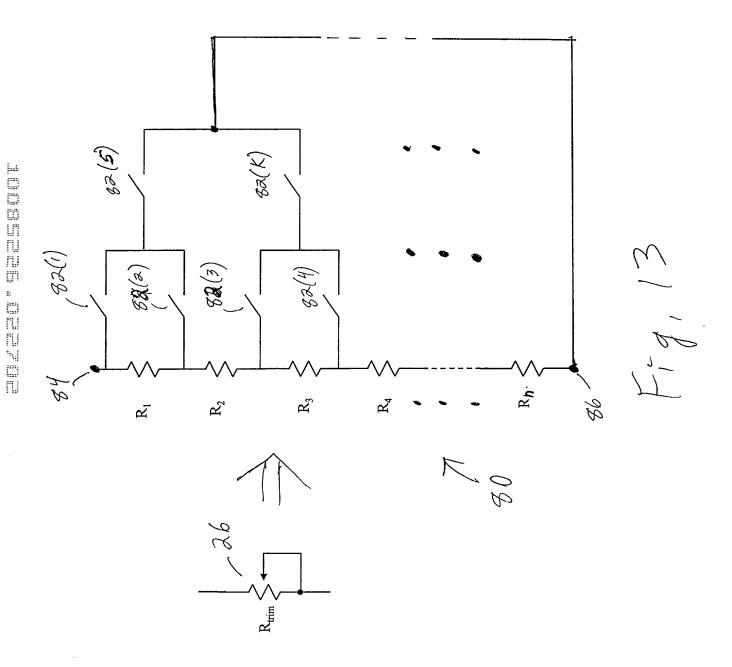


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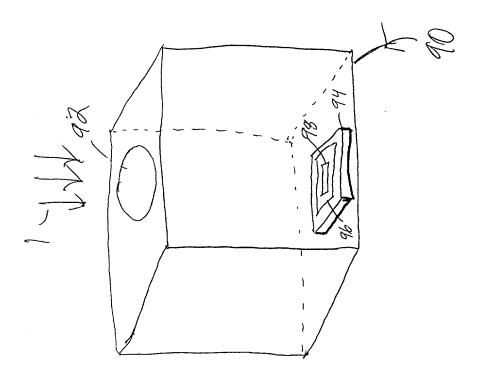






Title: Microbolometer Focal Plane Array Methods And Circuitry
Inventors: Dr. William J. Parrish; Jeffrey L. Heath; Naseem Y. Aziz; Joseph Kostrzewa; George H. Poe
Docket No.: M-12565 US

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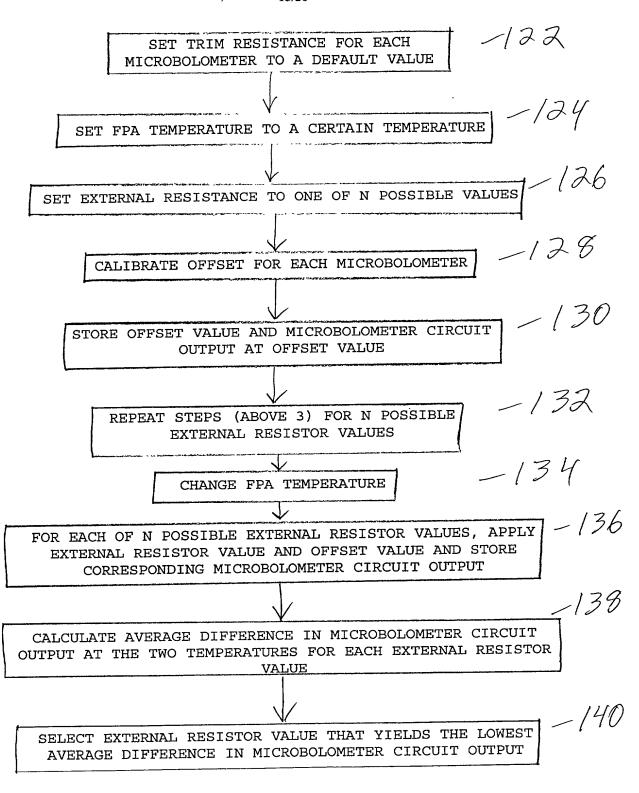
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CALIBRATION OF EXTERNAL RESISTANCE CALIBRATION OF TRIM RESISTANCE AND OFFSET FOR EACH MICROBOLOMETER CALIBRATION OF FINE OFFSET CORRECTION FOR EACH MICROBOLOMETER OVER FPA SUBSTRATE TEMPERATURE CALIBRATION OF GAIN TERMS FOR EACH MICROBOLOMETER CALIBRATION OF ADDITIONAL OFFSET FOR EACH MICROBOLOMETER FIG. 15

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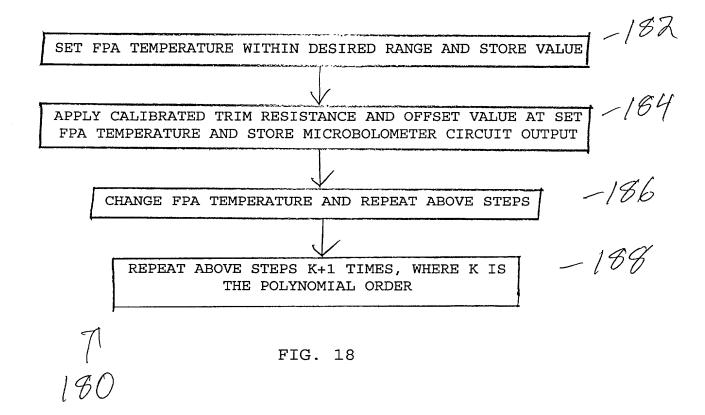


SET FPA TEMPERATURE TO ONE EXTREME OF DESIRED RANGE SET TRIM RESISTANCE TO ONE OF M POSSIBLE VALUES CALIBRATE OFFSET FOR EACH MICROBOLOMETER STORE OFFSET VALUE AND MICROBOLOMETER CIRCUIT OUTPUT REPEAT ABOVE STEPS FOR EACH OF M POSSIBLE VALUES CHANGE FPA TEMPERATURE TO OTHER TEMPERATURE LIMIT EXTREME FOR EACH VALUE OF M, APPLY TRIM RESISTANCE VALUE AND OFFSET VALUE AND STORE MICROBOLOMETER CIRCUIT OUTPUT - 166 CALCULATE DIFFERENCE IN MICROBOLOMETER CIRCUIT OUTPUT AT THE TWO TEMPERATURES SELECT THE TRIM RESISTANCE AND OFFSET VALUE THAT YIELDS THE MINIMUM DIFFERENCE IN MICROBOLOMETER CIRCUIT OUTPUT

FIG. 17

Title: Microbolometer Focal Plane Array Methods And Circuitry Inventors: Dr. William J. Parrish; Jeffrey L. Heath; Naseem Y. Aziz; Joseph Kostrzewa; George H. Poe Docket No.: M-12565 US

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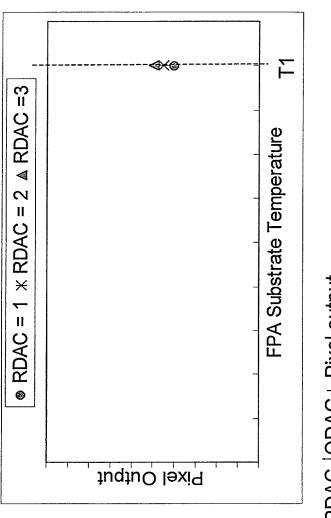


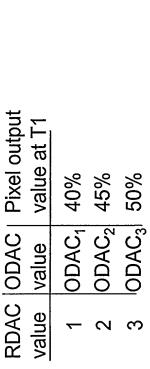
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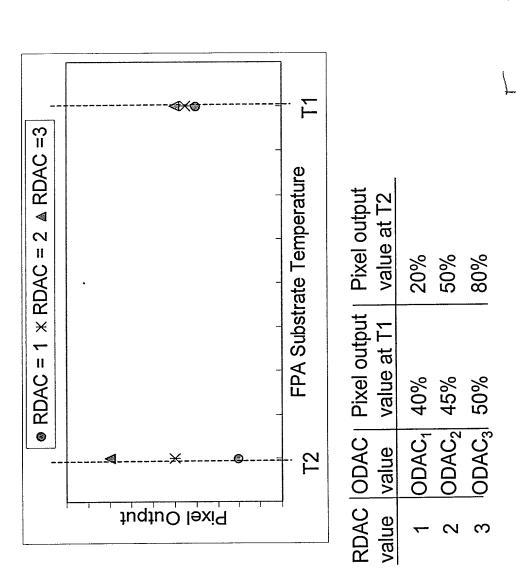
1 2	77
SET FPA TEMPERATURE WITHIN DESIRED RANGE AND STORE VALUE -20	14
	(M)
RECORD MICROBOLOMETER CIRCUIT OUTPUT AT TWO FLUX LEVELS AND CALCULATE THE DIFFERENCE	UG
	<u>/</u>
CHANGE FPA TEMPERATURE AND REPEAT ABOVE STEPS	2
	H
REPEAT ABOVE STEPS K+1 TIMES, WHERE K IS THE POLYNOMIAL ORDER	0
,	
7 FIG. 19	

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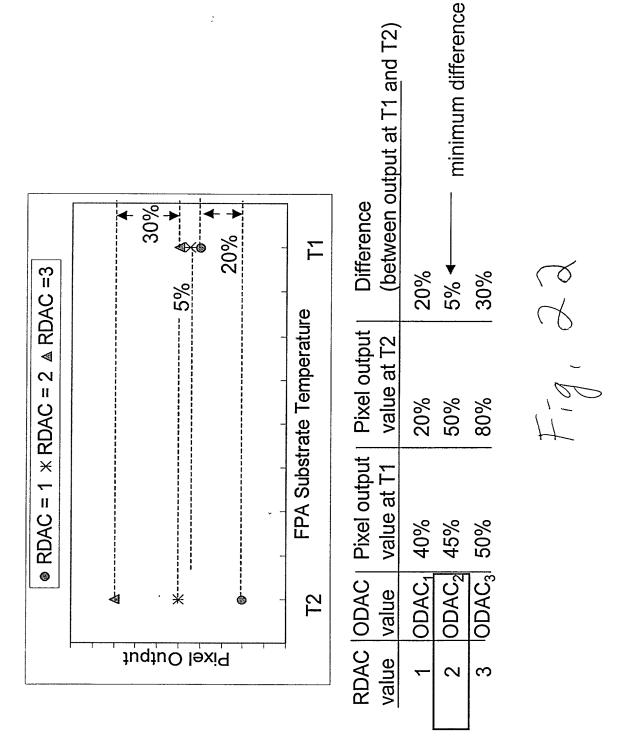




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